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ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			DHARIA, PRABODH M	
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			2673	

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/990,355

Applicant(s)

YEH, CHIA-JUI

Examiner

Prabodh M Dharia

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 09 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-41 and 47-68 is/are pending in the application.
- 4a) Of the above claim(s) 42-46 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-41, 47, 51, 55 and 58-68 is/are rejected.
- 7) ☒ Claim(s) 48, 50, 51, 53, 54, 56 and 57 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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1. **Status:** Receipt is acknowledged of papers submitted on 11-09-2004 under amendments have been placed of record in the file. Claims 1-41 and 47-68, are pending in this action, Claims 42-46 are cancelled.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1,2,4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nachani in view of Nakashima (5,729,251).

Regarding Claim 1, Nichani teaches an image processing system (Col. 4, Lines 6-8) comprising: image-transmitting means for generating and transmitting a first image signal (Col. 4, Lines 49-53), transmitted to computer-image processing system (Col. 8, Lines 33-39); electromagnetic induction means for- generating and transmitting a second image signal (Col. 5, 43-47, Col. 6, Lines 12-15); image processing means for receiving said first image signal and said second image signal to control and perform a plurality of image processing functions (Col. 7, Line 62 to Col. 8, Line 6), so as to generate a showing signal (Col. 9, Line 61 to Col. 10, Line 3); storage means for accessing image data into said image processing means; and display means for receiving said showing signal to display image (Col. 12, Lines 1-27).

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However, Nichani fails to teach specifically : image-transmitting means for generating and transmitting a first image signal, transmitted to computer-image processing system; electromagnetic induction means for- generating and transmitting a second image signal.

However, Nakashima teaches image-transmitting means for generating and transmitting a first image signal, transmitted to computer-image processing system (Col.6, Lines 51-67, Col. 10, Line 59 to Col. 15, Line 56); electromagnetic induction means for- generating and transmitting a second image signal (Col. 7, Lines 1-17, Col. 38, Lines 31-49, Col. 15, Line 59 to Col. 18, line 55, Col. 21, Line 58 to Col. 23, Line 56).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Nakashima teaching in teaching of Nichani to be able to transfer various types of information between an information processing system with a display section which carries out various types of information processing and a wireless coordinate indication device such as a stylus pen.

Regarding Claim 2, Nichani teaches wherein said image- transmitting means receives image data (Col. 4, Lines 49-53, transmitted to computer-image processing system Col. 8, Lines 33-39, Col. 5, 43-47, Col. 6, Lines 12-15), by transduction of optical radiation of the image data (Col. 8, lines 33-39).

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Regarding Claim 4, Nakashima teaches wherein said electromagnetic induction means receives electromagnetic wave signal by way of using electromagnetic induction (Col. 38, Lines 31-49).

Regarding Claim 5, Nichani teaches wherein said second image signal comprises an absolute coordinate in order to show the position of the image (Col. 10, Lines 42-54).

Regarding Claim 6, Nichani teaches wherein said second image signal comprises a pressure value in order to show the size of the image (Col. 8, lines 33-39, Col. 7, lines 48-50).

Regarding Claim 7, Nichani teaches wherein said plurality of image processing functions comprises a mixing mode (Col. 4, Lines 49-62).

Regarding Claim 8, Nichani teaches wherein said plurality of image processing functions comprises a deleting mode (Col. 4, Lines 49-67).

4. Claims 3,9,10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nachani in view of Nakashima (5,729,251) as applied to claims 1,2,4-8 above, and further in view of Richey (5,495,576)..

Regarding Claim 3, Nichani teaches an image processing system (Col. 4, Lines 6-8)

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However, Nichani fails to teach image- transmitting means receives image data by way of using communication

However, Ritchey teaches image- transmitting means receives image data by way of using communication (Col. 11, lines 1-4, Col. 8, Lines 7-16).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Ritchey teaching in teaching of Nichani modified by Nakashima to be able to manipulate using given data of 3D shape and contour, the geometry of subject comprising virtual model for presentation and distribution to display unit.

Regarding Claim 9, Ritchey teaches wherein said plurality of image processing functions comprises a broadcasting mode (Col. 32, Lines 21-67).

Regarding Claim 10, Ritchey teaches wherein said plurality of image processing functions comprises a setting mode (Col. 29, Lines 58,59, Col. 32, line 65, Col. 33, Line 14).

5. Claims 11,12,13,17,18,23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mager et al. (5,257,093) in view of Wu et al. (6,094,504) and Nakashima (5,729,251).

Regarding Claim 11, Mager et al. teaches an image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), said image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), can catches image by transduction (Col. 1, 8-12, 14-20, Col. 9, Lines 46-58) of

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optical radiation of the image data to generate a first image signal (Col. 10, lines 54-59, Col. 11, Lines 7-12, Col. 2, lines 44-51).

However, Mager fails to teach a motion less image processing system an image transmitting sub-circuit that is coupled with the external computer to communicate image data; an electromagnetic induction sub-circuit for receiving the electromagnetic wave signal; and generating a second image signal; an image processing sub-circuit that is coupled with said image sensing sub-circuit to receive said first digital signal, and said image processing sub-circuit is coupled with said transmitting sub-circuit to communicate said image data and wherein said image processing sub-circuit can control to switch all sub-circuits of said motionless-image processing system, and image processing means for receiving said first image signal and said second image signal to control and perform a plurality of image processing functions, so as to generate a showing signal; storage means for accessing image data into said image processing means; and display means for receiving said showing signal to display image.

Wu et al. teaches a motion less image processing system (Col. 1, Line 53 to Col. 2, Line12) an image transmitting sub-circuit that is coupled with the external computer (Col. 4, Lines 13-24, Col. 10, Lines 34-43) to communicate image data (Col. 5, Lines 62-67); an electromagnetic induction sub-circuit (Col. 6, Lines 38-44) for receiving the electromagnetic wave signal (Col. 6, Lines 44-57); and generating a second image signal (Col. 6, Lines 19-34, Lines 57-60, Col. 7, line 49 to Col. 8, Line 4); an image processing sub-circuit that is coupled with the image sensing sub-circuit (Col. 10, Lines 5-23) to receive said first digital signal, and said image processing sub-circuit is coupled with said transmitting sub-circuit to communicate image data (Col. 5, Lines 62-67, Col. 10, lines 34-43) and wherein said image processing sub-

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circuit can control to switch all sub-circuits of said motionless-image processing system (Col. 8, Lines 5-10), and image processing means for receiving said first image signal and said second image signal to control (Col. 10, Line 66 to Col. 11, Line 3) and perform a plurality of image processing functions (Col. 11, Lines 4-22), so as to generate a showing signal (Col. 11, Lines 25-27); storage means for accessing image data into said image processing means; and display means for receiving said showing signal to display image (Col.9, line 65 to Col. 10, Line 49).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Wu et al. teaching in teaching of Mager et al. to be able to determine the location of a line object lying on a tablet by detecting electromagnetic induction between the positioning coils corresponding to that line object and the grid-shaped conductors formed in grid structure of the tablet.

Mager et al. teaches an image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), said image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), can catches image by transduction (Col. 1, 8-12, 14-20, Col. 9, Lines 46-58) of optical radiation of the image data to generate a first image signal (Col. 10, lines 54-59, Col. 11, Lines 7-12, Col. 2, lines 44-51).

However, Mager et al. fails to teach specifically : image-transmitting means for generating and transmitting a first image signal, transmitted to computer-image processing system; electromagnetic induction means for- generating and transmitting a second image signal.

However, Nakashima teaches image-transmitting means for generating and transmitting a first image signal, transmitted to computer-image processing system (Col.6, Lines 51-67, Col. 10, Line 59 to Col. 15, Line 56); electromagnetic induction means for- generating and



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transmitting a second image signal (Col. 7, Lines 1-17, Col. 38, Lines 31-49, Col. 15, Line 59 to Col. 18, line 55, Col. 21, Line 58 to Col. 23, Line 56).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Nakashima teaching in teaching of Mager et al. to be able to transfer various types of information between an information processing system with a display section which carries out various types of information processing and a wireless coordinate indication device such as a stylus pen.

Regarding Claim 12, Mager et al. teaches image-sensing sub-circuit comprises an image Sensor (col. 10, Lines 4,5).

Regarding Claim 13, Mager et al. teaches wherein said image-sensor comprises a digital camera (Col. 10, Lines 4,5).

Regarding Claim 17, Wu et al. teaches electromagnetic induction sub-circuit comprises a tablet (Col. 4, Lines 13-47).

Regarding Claim 18, Wu et al. teaches electromagnetic induction sub-circuit comprises a first processor (Col. 4, Lines 13-47).

Regarding Claim 23, Wu et al. teaches electromagnetic induction sub-circuit comprises a second processor (Col. 4, Lines 13-47).

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6. Claims 14,16,24,26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mager et al. (5,257,093) in view of Wu et al. (6,094,504) and Nakashima (5,729,251) as applied to claims 11,12,13,17,18,23 above, and further in view of Richey (5,495,576).

Regarding Claim 14, Mager et al. teaches an image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), said image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), can catches image by transduction (Col. 1, 8-12, 14-20, Col. 9, Lines 46-58) of optical radiation of the image data to generate a first image signal (Col. 10, lines 54-59, Col. 11, Lines 7-12, Col. 2, lines 44-51).

However, Mager et al. modified by Wu et al. fails to teach image transmitting sub-circuit comprises a serial interface.

However, Richey teaches image transmitting sub-circuit comprises a serial interface (Col. 32, Lines 60-63).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Richey teaching in teaching of Mager et al. modified by Wu et al. and Nakashima to be able to manipulate using given data of 3D shape and contour, the geometry of subject comprising virtual model for presentation and distribution to display unit.

Regarding Claim 16, Richey teaches serial interface comprises a recommended standard-232 (Col. 19, Line 46-50).

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Regarding Claim 24, Richey teaches second processor comprises a setting function to set the showing format and adjust the display's resolution (Col. 26, Lines 38-45).

Regarding Claim 26, Richey teaches second processor comprises a displaying function to show the stored image with specific serial number (Col. 26, Lines 52-59).

Regarding Claim 27, Richey teaches displaying function comprises an image mixing function to form a mixed image with specific serial number according to said first image signal and said second image signal (Col. 26, Lines 38-61).

Regarding Claim 28, Ritchey teaches second processor comprises a broadcasting function to show image (Col. 21, Line 38 to Col. 22, Line 18).

7. Claims 15,25,29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mager et al. (5,257,093) in view of Wu et al. (6,094,504) and Nakashima (5,729,251) as applied to claims 11,12,13,17,18,23 above, and further in view of Nanba (6,297,870 B1).

Regarding Claim 15, Mager et al. teaches an image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), said image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), can catches image by transduction (Col. 1, 8-12, 14-20, Col. 9, Lines 46-58) of optical radiation of the image data to generate a first image signal (Col. 10, lines 54-59, Col. 11, Lines 7-12, Col. 2, lines 44-51).

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However, Mager et al. modified by Wu et al. fails to teach wherein said serial interface comprises an universal serial bus.

However, Nanba teaches wherein said serial interface comprises an universal serial bus (Col. 3, Lines 56-58).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Nanba teaching in teaching of Mager et al. modified by Wu et al. and Nakashima to be able to use digital camera photoelectrically converts an optical image of an object into an image signal performs image processing and records the image signal in a recording medium.

Regarding Claim 25, Nanba teaches second processor comprises a deleting function to delete the image (Col. 3, Lines 43,44).

Regarding Claim 29, Nanba teaches displaying sub-circuit comprises a liquid crystal display (Col. 3, lines 51-53).

8. Claims 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mager et al. (5,257,093) in view of Wu et al. (6,094,504) and Nakashima (5,729,251) as applied to claims 11,12,13,17,18,23 above, and further in view of Fujioka (6,674,424 B1).

Regarding Claim 19, Mager et al. teaches an image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), said image sensing sub-circuit (figure 2, Col. 2, Line 51, Col. 10, Lines 4,5), can catches image by transduction (Col. 1, 8-12, 14-20, Col. 9, Lines 46-58) of

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optical radiation of the image data to generate a first image signal (Col. 10, lines 54-59, Col. 11, Lines 7-12, Col. 2, lines 44-51).

However, Mager et al. modified by Wu et al. and Nakashima fails to teach first processor comprises a locus-detecting step to generate a plurality of locus data according to the electromagnetic wave signal.

However, Fujioka teaches first processor comprises a locus-detecting step to generate a plurality of locus data according to the electromagnetic wave signal (Col. 10, Line 66 to Col. 11, Line 6).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Fujioka teaching in teaching of Mager et al. modified by Wu et al. and Nakashima to be able to displayed an image on a relatively large screen by a method and apparatus for inputting information including coordinate data of allocation of a coordinate input member, such as pen, a human finger, etc.

Regarding Claim 20, Fujioka teaches plurality of locus data comprise a type of data as  $(X_i, Y_i, W)$ , wherein "  $X_i$  " and "  $Y_i$  " indicates the position of coordinates, and "  $W$  " indicates the size of locus's diameter (Col. 10, Line 66 to Col. 11, Line 6, Col. 11, Lines 34-39 it is well known to one in the ordinary skill of art that each locus not only has coordinate data but also has center point called loci which has radius and  $2 \times \text{radius}$  is diameter).

Regarding Claim 21, Fujioka teaches first processor comprises a locus-depicting step to draw a plurality of drops with specific color (Col. 23, lines 1-5).

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Regarding Claim 22, Fujioka teaches plurality of drops can be drew by way of using a plurality of locus data ( $X_i$ ,  $Y_i$ ) as a plurality of circle centers and  $W/2$  as radius thereof (Col. 10, Line 66 to Col. 11, Line 6, Col. 11, Lines 34-39 it is well known to one in the ordinary skill of art that each locus not only has coordinate data but also has center point called loci which has radius and  $2 \times \text{radius}$  is diameter).

9. Claims 30-41, are rejected under 35 U.S.C. 103(a) as being unpatentable over Nanba (6,297,870 B1) in view of Richey (5,495,576).

Regarding Claim 30, Nanba teaches a processing method of a microprocessor (Col. 6, Lines 51) of an image processing sub-circuit (Col. 6, Lines 51,52) in the motionless-image processing system (Col. 3, lines 4,5), said processing method comprising, receiving an executive order (Col. 7, Line 5 to Col. 8, Line 24), and then performing a specific function mode by said executive order to proceed with a image processing procedure (Col. 6, Lines 20 to Col. 8, line 12).

However, Nanba fails to teach wherein said plurality of image processing functions comprises a broadcasting mode.

However, Richey teaches wherein said plurality of image processing functions comprises a broadcasting mode (Col. 32, Lines 21-67).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Richey teaching in teaching of Nanba to be able to manipulate using given data of

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3D shape and contour, the geometry of subject comprising virtual model for presentation and distribution to display unit.

Regarding Claim 31, Nanba teaches specific function mode comprises a setting mode (Col. 6, Lines 14-19).

Regarding Claim 32, Nanba teaches setting mode comprises an inputting step to input a showing format (Col. 5, Lines 54-61).

Regarding Claim 33, Nanba teaches setting mode comprises an adjusting step to adjust the resolution of the image (Col. 5, Lines 23-49, Lines 54-61).

Regarding Claim 34, Nanba teaches specific function mode comprises a deleting mode (Col. 3, Lines 44,45, Col. 6, Line 14-19).

Regarding Claim 35, Nanba teaches deleting mode comprises a confirmation step to confirm deletion of the image (Col. 3, Lines 44,45, Col. 6, Line 14-19).

Regarding Claim 36, Nanba teaches deleting mode comprises a step for deleting the image (Col. 3, Lines 44,45, Col. 6, Line 14-19).

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Regarding Claim 37, Nanba teaches specific function mode comprises a displaying mode (Col. 3, Lines 51-55, Col. 6, Lines 14-19).

Regarding Claim 38, Nanba teaches displaying mode comprises an accessing step to retrieve a specific serial number of the image (Col. 3, Lines 33-55).

Regarding Claim 39, Nanba teaches displaying mode comprises a confirmation step to confirm mix of the image (Col. 3, Lines 33-55).

Regarding Claim 40, Nanba teaches displaying mode comprises an image-mixing step to form a mixed-image with said specific serial number (Col. 3, Lines 33-47).

Richey teaches second processor comprises a displaying function to show the stored image with specific serial number (Col. 26, Lines 52-59).

Regarding Claim 41, Nanba teaches displaying mode comprises a step for displaying unmixed-image to show the image with said specific serial number (Col. 3, Lines 33-47).

10. Claims 47,49,52,55,58-63,64-68, are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakashima (5,729,251) in view of Dunton et al. (6,556,242 B1) and Masuda et al. (6,653,983 B2).

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Regarding Claim 47, Nakashima teaches a handwriting inputting function (Col. 24, Lines 29-35), comprising: an image-sensor that can catch an image by transduction of optical radiation of the image data; an image signal sub-circuit that is coupled with said image-sensor to receive said image and generate a first image signal (Col. 39, Line 45 to Col. 40, Line 58, optical radiation signals are converted to binary data or electrical signal (Col. 27, Lines 4-21)); a first microprocessor: that is coupled with said image signal sub-circuit to receive said first image signal; a display driving sub-circuit that is coupled with said first microprocessor to receive a displaying signal; a liquid crystal display that is coupled with said display driving sub-circuit to show various images (Col. 21, Line 58 to Col. 22, Line 36); an inverter sub-circuit that is coupled with said microprocessor to receive an adjusting signal, so as to generate a specific voltage (Col. 16, Line 66 to Col. 17, Line 13); an antenna loop that can receive an electromagnetic wave signal by electromagnetic induction (Col. 38, lines 31-43); and an electromagnetic-inducting sub-circuit with a second microprocessor that is coupled with said antenna loop to receive said electromagnetic wave signal, so as to generate a second image signal (Col. 38, Lines 31-49), wherein said electromagnetic-inducting sub-circuit is coupled with said first microprocessor to transmit said second digital signal, and said first microprocessor can form a mixed-image according to said first image signal and said second image signal; and a peripheral apparatus that can emit electromagnetic wave signal by way of electromagnetic induction, said peripheral apparatus can input image above said liquid crystal display (Col. 21, Line 58 to Col. 22, Line 36, Col. 10, Line 59 to Col. 12, Line 11).

However, Nakashima fails to teach digital photo-album.

However, Dunton et al. teaches digital photo-album (Col. 1, Lines 9-17).

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Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Dunton et al. teaching in teaching of Nakashima to be able to operate in video mode or regular still (motionless) photographic camera.

Nakashima teaches a handwriting inputting function (Col. 24, Lines 29-35).

However, fails to teach Nakashima a back-lighted module that is coupled with said inverter sub-circuit to receive said specific voltage.

However, Masuda et al. teaches a back-lighted module that is coupled with said inverter sub-circuit to receive said specific voltage (Col. 4, Lines 15-19).

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate Masuda et al. teaching in teaching of Nakashima to be able to have an antenna or antennae (loop or folded) which are limited in mounting volume such as notebook-sized personal computer.

Regarding Claim 49, Nakashima teaches wherein said plurality of image processing functions comprises a broadcasting mode (Col. 13, Lines 2-4 It is well known to one ordinary skill of art that networks are used for broadcasting).

Regarding Claim 52, Nakashima teaches plurality of switches comprise a first switch to control to switch said antenna loop and said electromagnetic-inducting sub-circuit (Col. 27, Lines 12-21, Col. 38, Lines 31-34, Col. 27, Lines 18-21).

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Regarding Claim 55, Nakashima teaches plurality of switches comprise a fourth switch to control to switch said image-sensor (Col. 27, Lines 4-55).

Regarding Claim 58, Dunton et al. teaches serial interface comprises a recommended standard-232 (Col. 3, Lines 50-58).

Regarding Claim 59, Nakashima teaches first microprocessor is coupled with a stored device (Col. 25, Lines 27-34).

Regarding Claim 60, Nakashima teaches stored device is coupled with said microprocessor via an accessing interface, so that said microprocessor accesses various image data (Col. 24, Lines 24-54).

Regarding Claim 61, Nakashima teaches display driving sub-circuit is coupled with a adjusting button to adjust the pictures shown on said liquid crystal display (Col. 23, Line 57 to Col. 24, Line 16).

Regarding Claim 62, Masuda et al. teaches back-lighted module is located under said liquid crystal display (Col. 4, Lines 15-19).

Regarding Claim 63, Masuda et al. teaches antenna loop (Col. 1, lines 25,26, 34-36) is located under said back-lighted module (Col. 4, Lines 15-19).

Regarding Claim 64, Nakashima teaches electromagnetic-inducting sub-circuit (Col. 38, Lines 31-34) comprises: an amplifier that is coupled with said antenna loop (Col. 27, Lines 18-21); a band pass filter that is coupled with said amplifier to generate a signal with a specific frequency (Col. 17, Lines 14-63); a shaping sub-circuit that is coupled with said band pass filter to receive said signal with said specific frequency and generate a clock signal, wherein said second microprocessor is coupled with said shaping sub-circuit to receive said clock signal (Col. 20, Line 66 to Col. 22, Line 36) and calculate a pressure value, a rectifier that is coupled with said band pass filter to receive said signal with said specific frequency and generate a direct signal (Col. 17, Line 14 to Col. 18, line 43); a peak detector that is coupled with said rectifier to detect the peak of said direct signal; and an Analogy/Digital converter that is coupled with said peak detector to receive the peak and transform the peak into a digital signal, wherein said second microprocessor is coupled with said Analogy/Digital converter to receive said digital signal and calculate an absolute coordinate (Col. 17, Line 14 to Col. 18, Line 43, Col. 20, line 66 to Col. 22, Line 36).

Regarding Claim 65, Nakashima teaches second image signal is generated according to said pressure value and said absolute coordinate by said second microprocessor (Col. 20, line 66 to Col. 22, Line 43).

Regarding Claim 66, Nakashima teaches second microprocessor is coupled with said first microprocessor to transmit said second image signal (Col. 13, Lines 40-67, Col. 14, Lines 6-67).

Regarding Claim 67, Nakashima teaches second microprocessor is coupled with said antenna loop to control to scan position (Col. 17, Lines 14-63).

Regarding Claim 68, Nakashima teaches peripheral apparatus comprises a cordless pen (Col. 14, Lines 36,37).

*Allowable Subject Matter*

11. Claims 48, 50,51,53,54, 56, 57 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

12. The following is an examiner's statement of reasons for allowance:

**A digital photo-album with handwriting inputting function, said digital photo-album comprising: an image-sensor that can catch an image by transduction of optical radiation of the image data; an image signal sub-circuit that is coupled with said image-sensor to receive said image and generate a first image signal; a first microprocessor that is coupled with said image signal sub-circuit to receive said first image signal; a display driving sub-circuit that is coupled with said first microprocessor to receive a displaying signal; a liquid crystal display that is coupled with said display driving sub-circuit to show various images; an inverter sub-circuit that is coupled with said microprocessor to receive an adjusting signal, so as to generate a specific voltage; a back-lighted module that is**

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coupled with said inverter sub-circuit to receive said specific voltage; an antenna loop that can receive an electromagnetic wave signal by electromagnetic induction; and an electromagnetic-inducting sub-circuit with a second microprocessor that is coupled with said antenna loop to receive said electromagnetic wave signal, so as to generate a second image signal, wherein said electromagnetic-inducting sub-circuit is coupled with said first microprocessor to transmit said second digital signal, and said first microprocessor can form a mixed-image according to said first image signal and said second image signal; and a peripheral apparatus that can emit electromagnetic wave signal by way of electromagnetic induction, said peripheral apparatus can input image above said liquid crystal display and first microprocessor is coupled with a plurality of mode buttons to select specific modes, plurality of mode buttons comprise a broadcast mode button, plurality of mode buttons comprise a deleting mode button and first microprocessor is coupled with a plurality of switches to start specific functions.

Cited references on 892's fail to anticipate individually or render obviousness individually as well as in combination bold and underlined above claim

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Response to Arguments*

13. Applicant's arguments filed 11-09-2004 have been fully considered but they are not persuasive.

Applicant argues that cited references Nakashima, Nichani, Mager et al. and Wu et al. for claims 1,11 fails to teach image-transmitting means for generating and transmitting a first image signal, transmitted to computer-image processing system; electromagnetic induction means for-generating and transmitting a second image signal.

Examiner disagrees, as cited reference of Nakashima teaches image-transmitting means for generating and transmitting a first image signal, transmitted to computer-image processing system (Col.6, Lines 51-67, Col. 10, Line 59 to Col. 15, Line 56); electromagnetic induction means for- generating and transmitting a second image signal (Col. 7, Lines 1-17, Col. 38, Lines 31-49, Col. 15, Line 59 to Col. 18, line 55, Col. 21, Line 58 to Col. 23, Line 56).

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is informed that all of the other additional cited references either anticipate or render the claims obvious. In order to not to be repetitive and exhaustive, the examiner did draft additional rejection based on those references.

*Conclusion*

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Ogawa; Yasuji (US 6567078 B2) Handwriting communication system and handwriting input device used therein.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 703-605-1231.

The examiner can normally be reached on M-F 8AM to 5PM.

17. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703-3054938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

18. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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AU2673

February 17, 2005



**VIJAY SHANKAR**  
**PRIMARY EXAMINER**